IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

1. (original) A method of coating a CMC fiber, comprising:

passing said fiber through a reaction zone along a path substantially parallel to a longitudinal axis of said zone,

passing a flow of fiber coating reactant though said reaction zone; and

disrupting at least a portion of said flow of reactant from a path substantially parallel to said fiber path to create a mixing flow adjacent said fiber.

- 2. (original) The method of claim 1, wherein said reaction zone is a CVD reactor chamber.
- 3. (original) The method of claim 2, wherein said fiber is passed through a first seal through said CVD reactor chamber to discharge at a second seal of said reactor chamber.
- 4. (original) The method of claim 1, wherein said fiber comprises a single monofilament fiber.

	5.	(original)	The method of claim 1, wherein said fiber
comprises a fiber tow.			
	6.	(original)	The method of claim 5, wherein a plurality of fiber
tows are simultaneously passed through said reaction zone for coating.			
	7.	(original)	The method of claim 1, wherein said fiber is a
silicon carbide fiber.			
	8.	(original)	The method of claim 1, wherein said fiber is an
aluminum oxide fiber.			
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"" 1'1	9.	(original)	The method of claim 1, wherein said fiber is a
silicon carbide-based fiber.			
	10.	(original)	The method of claim 1, wherein said fiber coating
reactant comn		, ,	The method of claim 1, wherein said noer coating
reactant comprises a hydrocarbon.			
	11.	(original)	The method of claim 1, wherein said fiber coating
reactant comprises methane.			

- 12. (original) The method of claim 1, wherein said fiber coating reactant comprises boron trichloride and ammonia.
- 13. (original) The method of claim 1, wherein said fiber coating reactant comprises boron trichloride, ammonia and a silicon precursor.
- 14. (original) The method of claim 13, wherein the silicon precursor is selected from dichlorosilane, trichlorosilane, silicon tetrachloride and silane.
- 15 (original) The method of claim 1, wherein said fiber coating reactant includes hydrogen or nitrogen.
- 16. (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.05 Torr to about atmospheric pressure (760 Torr).
- 17 (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.1 to about 50 Torr.
- 18. (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.3 to about 10 Torr.

- 19 (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 700° to about 1800°C.
- 20. (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 1100° to about 1550°C.
- 21. (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 1350° to about 1500°C.
- 22. (original) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.020 to about 1 inch.
- 23. (previously presented) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.045 to about 0.25 inches.
- 24. (original) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.05 to about 0.1 inch.

- 25. (original) The method of claim 1, the fiber is passed through the reaction zone at a rate from about 1 to about 200 inches/minute.
- 26. (previously presented) The method of claim 1, the fiber is passed through the reaction zone at a rate from 5 to about 100 inches/minute.
- 27. (original) The method of claim 1, the fiber is passed through the reaction zone at a rate from about 10 to about 60 inches/minute.

28. - 39. (canceled)

- 40. (new) The method of claim 1, wherein disrupting comprises inducing flow of the fiber coating reactant back and forth across the fiber.
 - 41. (new) A method, comprising:

flowing a fiber coating reactant back and forth across a fiber passing through a reaction zone.

42. (new) The method of claim 41, wherein flowing the fiber coating reactant comprises deflecting the fiber coating reactant in a zigzagging pattern against opposite walls in the reaction zone.

- 43. (new) The method of claim 41, wherein flowing the fiber coating reactant comprises passing the fiber coating reactant across a zigzagging pattern of the fiber.
- 44. (new) The method of claim 41, comprising pulling one or more continuous lengths of the fiber through the reaction zone.
 - 45. (new) A method, comprising:

flowing a fiber coating reactant crosswise over a continuous fiber at a plurality of locations as the continuous fiber passes through a reaction zone.